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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/783,580

DATE: 09/07/2001

TIME: 16:58:24

Input Set : A:\ES.txt

Output Set: N:\CRF3\09072001\I783580.raw

ENTERED

3 <110> APPLICANT: CORNETT, Lawrence  
 4 HILLER, F, Charles  
 5 JONES, Stacie  
 7 <120> TITLE OF INVENTION: RECOMBINANT BETA2-ADRENERGIC RECEPTOR DELIVERY AND USE IN  
 TREATING AIRWAY  
 8 AND VASCULAR DISEASES  
 10 <130> FILE REFERENCE: 023533/0113  
 12 <140> CURRENT APPLICATION NUMBER: US 09/783,580  
 13 <141> CURRENT FILING DATE: 2001-02-15  
 15 <150> PRIOR APPLICATION NUMBER: us 60/182,502  
 16 <151> PRIOR FILING DATE: 2000-02-15  
 18 <160> NUMBER OF SEQ ID NOS: 17  
 20 <170> SOFTWARE: PatentIn version 3.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 15  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Unknown  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: misc\_feature  
 29 <222> LOCATION: ()..()  
 30 <223> OTHER INFORMATION: glucocorticoid response element ✓  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: misc\_feature  
 35 <222> LOCATION: (7)..(9)  
 36 <223> OTHER INFORMATION: The "N" at positions 7, 8 and 9 can be A, C, G or T  
 39 <400> SEQUENCE: 1  
 W--> 40 gtcacannnt gttct 15  
 43 <210> SEQ ID NO: 2  
 44 <211> LENGTH: 9  
 45 <212> TYPE: PRT  
 46 <213> ORGANISM: Unknown  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: misc\_feature  
 50 <222> LOCATION: ()..()  
 51 <223> OTHER INFORMATION: epitope tag ✓  
 54 <400> SEQUENCE: 2  
 56 Tyr Pro Tyr Asp Val Pro Asp Tyr Ala  
 57 1 5  
 59 <210> SEQ ID NO: 3  
 60 <211> LENGTH: 15  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: Unknown  
 64 <220> FEATURE:  
 65 <221> NAME/KEY: misc\_feature  
 66 <222> LOCATION: ()..()  
 67 <223> OTHER INFORMATION: glucocorticoid response element ✓  
 70 <400> SEQUENCE: 3  
 71 cgagtaacgt gttct 15

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74 <210> SEQ ID NO: 4
75 <211> LENGTH: 15
76 <212> TYPE: DNA
77 <213> ORGANISM: Unknown ✓
79 <220> FEATURE:
80 <221> NAME/KEY: misc_feature
81 <222> LOCATION: ()..()
82 <223> OTHER INFORMATION: glucocorticoid response element ✓
85 <400> SEQUENCE: 4
86 ttgcctgcat gttct 15
89 <210> SEQ ID NO: 5
90 <211> LENGTH: 15
91 <212> TYPE: DNA
92 <213> ORGANISM: Unknown ✓
94 <220> FEATURE:
95 <221> NAME/KEY: misc_feature
96 <222> LOCATION: ()..()
97 <223> OTHER INFORMATION: glucocorticoid response element ✓
100 <400> SEQUENCE: 5
101 ttcaccaagt gtgct 15
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 15
106 <212> TYPE: DNA
107 <213> ORGANISM: Unknown ✓
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION: ()..()
112 <223> OTHER INFORMATION: glucocorticoid response element ✓
115 <400> SEQUENCE: 6
116 cacctcctgt gttct 15
119 <210> SEQ ID NO: 7
120 <211> LENGTH: 15
121 <212> TYPE: DNA
122 <213> ORGANISM: Unknown ✓
124 <220> FEATURE:
125 <221> NAME/KEY: misc_feature
126 <222> LOCATION: ()..()
127 <223> OTHER INFORMATION: glucocorticoid response element ✓
130 <400> SEQUENCE: 7
131 ggggtgagctt gttct 15
134 <210> SEQ ID NO: 8
135 <211> LENGTH: 15
136 <212> TYPE: DNA
137 <213> ORGANISM: Unknown ✓
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION: ()..()
142 <223> OTHER INFORMATION: glucocorticoid response element ✓
145 <400> SEQUENCE: 8

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146 gcacccacga gctca 15
149 <210> SEQ ID NO: 9
150 <211> LENGTH: 15
151 <212> TYPE: DNA
152 <213> ORGANISM: Unknown ✓
154 <220> FEATURE:
155 <221> NAME/KEY: misc_feature
156 <222> LOCATION: ()..()
157 <223> OTHER INFORMATION: glucocorticoid response element ✓
160 <400> SEQUENCE: 9
161 aatatacctgt ggtct 15
164 <210> SEQ ID NO: 10
165 <211> LENGTH: 15
166 <212> TYPE: DNA
167 <213> ORGANISM: Unknown ✓
169 <220> FEATURE:
170 <221> NAME/KEY: misc_feature
171 <222> LOCATION: ()..()
172 <223> OTHER INFORMATION: glucocorticoid response element ✓
175 <220> FEATURE:
176 <221> NAME/KEY: misc_feature
177 <222> LOCATION: (7)..(9)
178 <223> OTHER INFORMATION: The "N" at positions 7, 8 and 9 can be A, C, G or T
181 <400> SEQUENCE: 10
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185 <210> SEQ ID NO: 11
186 <211> LENGTH: 35
187 <212> TYPE: DNA
188 <213> ORGANISM: Unknown ✓
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: ()..()
193 <223> OTHER INFORMATION: glucocorticoid response element ✓
196 <400> SEQUENCE: 11
197 agcttcgtgt ccgggtgagc ttgttctttc tgtta 35
200 <210> SEQ ID NO: 12
201 <211> LENGTH: 35
202 <212> TYPE: DNA
203 <213> ORGANISM: Unknown ✓
205 <220> FEATURE:
206 <221> NAME/KEY: misc_feature
207 <222> LOCATION: ()..()
208 <223> OTHER INFORMATION: glucocorticoid response element ✓
211 <400> SEQUENCE: 12
212 ccgggcgtgt ccgggtgagc ttattctttc tgttc 35
215 <210> SEQ ID NO: 13
216 <211> LENGTH: 35
217 <212> TYPE: DNA
218 <213> ORGANISM: Unknown

```

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```

220 <220> FEATURE:
221 <221> NAME/KEY: misc_feature
222 <222> LOCATION: ()..()
223 <223> OTHER INFORMATION: glucocorticoid response element ✓
226 <400> SEQUENCE: 13
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230 <210> SEQ ID NO: 14
231 <211> LENGTH: 35
232 <212> TYPE: DNA
233 <213> ORGANISM: Unknown
235 <220> FEATURE:
236 <221> NAME/KEY: misc_feature
237 <222> LOCATION: ()..()
238 <223> OTHER INFORMATION: glucocorticoid response element ✓
241 <400> SEQUENCE: 14
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245 <210> SEQ ID NO: 15
246 <211> LENGTH: 35
247 <212> TYPE: DNA
248 <213> ORGANISM: Unknown
250 <220> FEATURE:
251 <221> NAME/KEY: misc_feature
252 <222> LOCATION: ()..()
253 <223> OTHER INFORMATION: glucocorticoid response element ✓
256 <400> SEQUENCE: 15
257 agcttggtgtg tgtgttttat tcctgtttgg caaga 35
260 <210> SEQ ID NO: 16
261 <211> LENGTH: 14
262 <212> TYPE: DNA
263 <213> ORGANISM: Unknown
265 <220> FEATURE:
266 <221> NAME/KEY: misc_feature
267 <222> LOCATION: ()..()
268 <223> OTHER INFORMATION: glucocorticoid response element ✓
271 <400> SEQUENCE: 16
272 gggtgagctg ttct 14
275 <210> SEQ ID NO: 17
276 <211> LENGTH: 14
277 <212> TYPE: DNA
278 <213> ORGANISM: Unknown
280 <220> FEATURE:
281 <221> NAME/KEY: misc_feature
282 <222> LOCATION: ()..()
283 <223> OTHER INFORMATION: glucocorticoid response element ✓
286 <400> SEQUENCE: 17
287 gggtgagcta ttct 14

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/783,580

DATE: 09/07/2001

TIME: 16:58:25

Input Set : A:\ES.txt

Output Set: N:\CRF3\09072001\I783580.raw

L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10